**Pre Calculus Name:**

**Unit Circle Review (Review Packet #2) Date:**

**Unit Circle Review!!!!**

**YES, I KNOW IT’S YOUR FAVORITE!**

1. a. Using the coordinates of points along the unit circle, what is the cosine function of an angle θ defined as?

b. Using the coordinates of points along the unit circle, what is the sine function of an angle θ defined as?

2. a. In what quadrants of the unit circle does the cosine function yield positive outputs?

b. In what quadrants of the unit circle does the cosine function yield negative outputs?

c. In what quadrants of the unit circle does the sine function yield positive outputs?

d. In what quadrants of the unit circle does the sine function yield negative outputs?

3.   

4.   

5.   

6.   **Inverse Trig Functions**

7.  8.  9. 

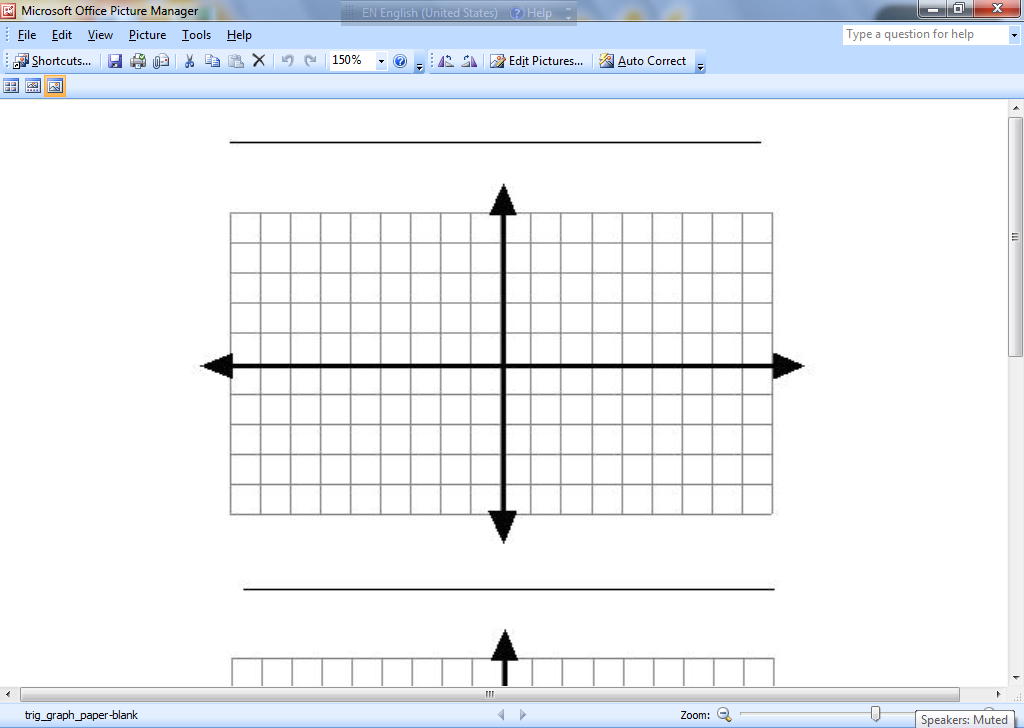
10.  11.  12. 

13.  14.  15. 

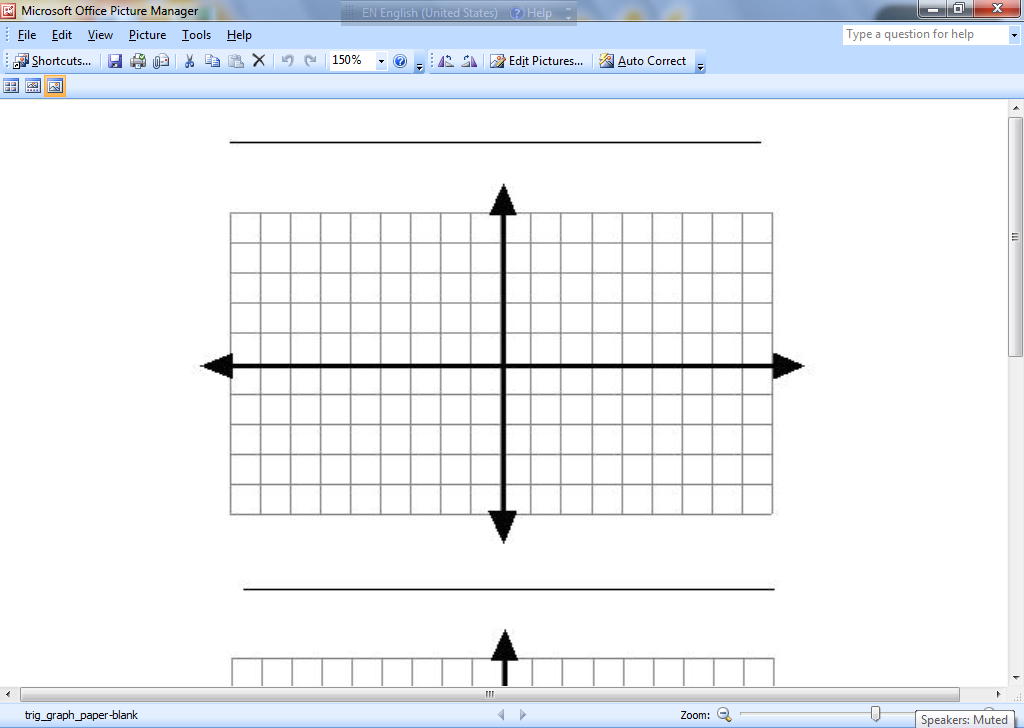
16.  17.  18. 

**Sine and Cosine Graphs**

19. Graph 



20. Graph 



21. Prove that 

22. Prove that 

23. Prove that 

Solve the following trig EQUATIONS:

24.

25.

26.